61 121 181 241 301 361 421	cgagaaaaggtgacgcggggcccgggcaggcggcggcggcgcccccccc	agge gege tete ggag
457	cggcggcgagcgggggccATGCAGCGCGCGCTACTCCGTGTCCAGCCCCAACTCC	12
511	CTGGGAGTGGTGCCCTACCTCGGCGGCGAGCAGAGCTACTACCGCGCGGCGGCC LeuGlyValValProTyrLeuGlyGlyGluGlnSerTyrTyrArgAlaAlaAla	30
565	GCGGCGGCCGGGGCGGCTACACCGCCATGCCGGCCCCCATGAGCGTGTACTCG AlaAlaAlaGlyGlyTyrThrAlaMETProAlaProMETSerValTyrSer	48
619	CACCCTGCGCACGCCGAGCAGTACCCGGGCGGCATGGCCCGCGCCTACGGGCCC HisProAlaHisAlaGluGlnTyrProGlyGlyMETAlaArgAlaTyrGlyPro	66
673	TACACGCCGCAGCCGAGCCCAAGGACATGGTGAAGCCGCCCTATAGCTACATC TyrThrProGlnProGlnProLysAspMETValLysProProTyrSerTyrIle	84
727	GCGCTCATCACCATGGCCATCCAGAACGCCCCGGACAAGAAGATCACCCTGAACAlaLeuIleThrMETAlaIleGlnAsnAlaProAspLysLysIleThrLeuAsn	102
781	GGCATCTACCAGTTCATCATGGACCGCTTCCCCCTTCTACCGGGACAACAAGCAGGlyIleTyrGlnPheIleMETAspArgPheProPheTyrArgAspAsnLysGln	120
835	GGCTGGCAGAACAGCATCCGCCACAACCTCTCGCTCAACGAGTGCTTCGTCAAG GlyTrpGlnAsnSerIleArgHisAsnLeuSerLeuAsnGluCysPheValLvs	138
889	GTGCCGCGCGACGACAAGAAGCCGGGCAAGGGCAGCTACTGGACGCTGGACCCG ValProArgAspAspLysLysProGlyLysGlySerTyrTrpThrLeuAspPro	156
943	GACTCCTACAACATGTTCGAGAACGGCAGCTTCCTGCGGCGGCGGCGGCGCTTC AspSerTryAsnMETPheGluAsnGlySerPheLeuArgArgArgArgArgPhe	174
997	AAGAAGAAGGACGCGGTGAAGGACAAGGAGGAGAAGGACAGGCTGCACCTCAAG LysLysLysAspAlaValLysAspLysGluGluLysAspArgLeuHisLeuLys	192
1051	GAGCCGCCCCGCCCGGCCGCCAGCCCCGCCCGCGCCGGAGCAGGCCGACGCLGACGCCGACGCCGAGCAGCCGACGCCGACGCCGAGCAGCCGACGCCGAGCAGC	210
1105	GGCAACGCGCCCGGTCCGCAGCCGCCGCCGTGCGCATCCAGGACATCAAGACC GlyAsnAlaProGlyProGlnProProProValArgIleGlnAspIleLysThr	228
1159	GAGAACGGTACGTGCCCCTCGCCGCCCCAGCCCCTGTCCCCGGCCGCCCCTGGluAsnGlyThrCysProSerProProGlnProLeuSerProAlaAlaAlaLeu	246
1213	GGCAGCGGCAGCCGCCGCGGTGCCCAAGATCGAGAGCCCCGACAGCAGCAGCGCGLySerGlySerAlaAlaAlaValProLysIleGluSerProAspSerSerSer	264
1267	AGCAGCCTGTCCAGCGGGAGCAGCCCCCGGGCAGCCTGCCGTCGGCGGCCG SerSerLeuSerSerGlySerSerProProGlySerLeuProSerAlaArgPro	282
1321	CTCAGCCTGGACGGTGCGGATTCCGCGCCGCCGCCCCCCCC	300
1375	CCGCCGCACCATAGCCAGGGCTTCAGCGTGGACAACATCATGACGTCGCTGCGG ProProHisHisSerGlnGlyPheSerValAspAsnIleMETThrSerLeuArg	318
1429	GGGTCGCCGCAGAGCGCGGCCGCGGAGCTCAGCTCCGGCCTTCTGGCCTCGGCG GlySerProGlnSerAlaAlaAlaGluLeuSerSerGlyLeuLeuAlaSerAla	336
1483	GCCGCGTCCTCGCGCGCGGGGGATCGCACCCCCGCTGGCGCTCCTCGGCGCCTACTCGALaAlaSerSerArgAlaGlyIleAlaProProLeuAlaLeuGlyAlaTyrSer	354
1537	CCCGGCCAGAGCTCCCTCTACAGCTCCCCCTGCAGCCAGACCTCCAGCGCGGCC ProGlyGlnSerSerLeuTyrSerSerProCysSerGlnThrSerSerAlaGly	372

Fig. 1A

1591	AGCTCGGGCGGCGGCGGCGGCGCGGGGGCCCGGGGGGGCGCGCG	390
1645	GGGACCTACCACTGCAACCTGCAAGCCATGAGCCTGTACGCGGCCGGC	408
1699	GGGGGCCACTTGCAGGGCGCGCCCGGGGGGGGGGGGGCTCGGCCGTGGACAAC GlyGlyHisLeuGlnGlyAlaProGlyGlyAlaGlyGlySerAlaValAspAsn	426
1753	CCCCTGCCCGACTACTCTCTGCCTCCGGTCACCAGCAGCAGCTCGTCGTCCCTG ProLeuProAspTyrSerLeuProProValThrSerSerSerSerSerSerLeu	444
1807	AGTCACGGCGGCGGCGGCGGCGGCGGGGGAGGCCAGGAGGCCGGCCACCA	462
1861	CCTGCGGCCCACCAAGGCCGCCTCACCTCGTGGTACCTGAACCAGGCGGGCG	480
1915	GACCTGGGCCACTTGGCAAGCGCGGCGGCGGCGGCGGCGGCGGCGAGGCTACCCG AspLeuGlyHisLeuAlaSerAlaAlaAlaAlaAlaAlaAlaAlaAlaGlyTyrPro	498
1969	GGCCAGCAGCAGAACTTCCACTCGGTGCGGGAGATGTTCGAGTCACAGAGGATC GlyGlnGlnAsnPheHisSerValArgGluMETPheGluSerGlnArgIle	516
2023	GGCTTGAACAACTCTCCAGTGAACGGGAATAGTAGCTGTCAAATGGCCTTCCCT GlyLeuAsnAsnSerProValAsnGlyAsnSerSerCysGlnMETAlaPhePro	534
2077	TCCAGCCAGTCTCTGTACCGCACGTCCGGAGCTTTCGTCTACGACTGTAGCAAG SerSerGlnSerLeuTyrArgThrSerGlyAlaPheValTyrAspCysSerLys	552
2131	TTTTGAcacaccctcaaagccgaactaaatcgaaccccaaagcaggaaaagcta PheSTP	554
222336255555555555555555555555555555555	aaggaacccatcaaggcaaaatcgaaactaaaaaaaaaa	

Fig. 1B

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Helix 3Q.Q.RSF.D FYRDNKQGWQNSIRHNLSLNECE	H. RP. H. RP. SPRK. T. D. Y. RKFP. D. Y. EKFPA. D. F. GSY. K. V. K. K. K. K. K. K. K. K. K. K
Helix 1 SN.TRMLSEL ALITMAIQNAPDKKITLNGIYQFIMDRFP	TTEPT AETPQ AETPQ AD. EQRA LQRG A LAH. GRRL AA R TE A SPRK LQRG AA AH. ERRL G K TE PKK ARQPA S LQS H.RL S CA S Y RKFP RTRL LQS K.RL S CE SG Y EKFPA RSPL LQS KRL LQS KRL SS T.RL SS T.RL SS T.RL SS T.RL SG Y EKFPA NGKYE NGKYE N M RQS E.RL G YYA NGKYE H.D LMKLVR S A HG RSPL ENN Y E H.D LMKLVR S A HG RSPL S CE SG Y EKFPA R PPA R PR R PPA R PPA R PPA R PR R PPA R PPA R PR R PPA R PPA R PR R PPA R PR R PPA R PPA R PR R PPA R PPA R PPA R PPA R PPA R PR R PPA R PPA
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NCI_CGAP_PF | 666226 Human 7 3' AA232742 AA232201 NhHMPu 768274 Human 767110 Human 7773D 3' AA424381 AA42466 NhHMPu 858885 Human 7773D 3' AA45846 NhHMPu 876279 Human 7773D 3' AA45846 NhHMPu 876279 Human 77773D 3' AA76534 NhJMPu 876279 Human 77773D 3' AA76534 NhJMPu 876279 NhJMPu 876279 Human 77773D 3' AA36865 NhJMPu 876279 Human 77773D 3' AA36865 NhJMPu 876279 NhJMPu 876279 NhJMPu 876379 Human 77773D 3' AA36865 NhJMPu 876279 NhJMPu 876279 NhJMPu 876379 Human 77773D 3' AA36865 NhJMPu 876279 NhJMPu 8762 | 666226 Human 7773D 3' AA232742 AA23201 NDHEMPU NDHEMPU 767110 Human 258143 Human pr773D 3' AA424381 AA42466 ND428 Human pr773D 3' AA498846 Petal Heart 1500423 Human pr773D 3' AA498846 ND5875 Petal Heart 1500423 Human pr773D 3' AA498846 NA776534 NDT CGAP_LD5 1560849 Human pr773D 3' AA022618 AA022755 919 Fetal Heart, 19 wk NJ917 Human pr773D 3' AA022618 AA022755 919 Fetal Heart, 19 wk NJ917 Human pr773D 3' AA348051 Petal Heart, 19 wk NG5835 Human pr773D 3' AA348051 Petal Heart, 19 wk 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AA38868 Human pr773D 3 AA3886687 Human pr773D 3 AA38868 Human pr773D AA38868 Huma | 66526 Human 77710 Human 73' AA42478 AA232201 NhHMPu NhHMPu 858843 Human 77730 3' AA42486 Placenta, 8 to 9 wk 85859 Human 777730 3' AA495846 A885880 722 Placenta, 8 to 9 wk 858370 Human 777730 3' AA495846 A885880 722 Placenta, 8 to 9 wk 94607 Human 777730 3' AA495846 A885880 722 Placenta, 8 to 9 wk 94607 Human 777730 3' AA495846 A885880 722 Placenta, 8 to 9 wk 94607 Human 777730 3' AA495846 A8855139 NCI_CGAP_LU5 NHMPu 1469849 Human 777730 3' AA495846 AA885139 NCI_CGAP_LU5 NHMPu 1469849 Human 777730 3' AA495846 AA855139 NCI_CGAP_LU5 NKI CGAP_LU5 NKI CAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CAP_LU5 NKI CGAP_LU5 NKI CGAP_LU5 NKI CAP_LU5 NKI CAP_LU5 NKI CAP_ | 66526 Human 7773D 3' AA23742 AA232201 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1600418 AA314694 NCI CGAP_LUS 1600418 NUSSES Human 7773D 3' AA314694 NCI CGAP_LUS 1600418 NUSSES NUS 1600418 NUSSES NUSSES NUS 1600418 NUSSES NUS | Secondary Seco | Second S | 568226 Human 3 AA232742 AA232201 NhHNPu NhH | 245808 666326 Human 3' AA22712 AA24187 MhBNPu MhBN | MANDER M |

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